

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 4/19/2019

Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	127.0
N2	Total SAR Deliveries	127.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	83.0
G2	North Fork Canal Weir	5.1
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	0.0
Z2	Cuttle Weir to River	38.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	44.0
U3	Total MC Deliveries	44.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	44.0
T3	MC #1 Flow (Cooley Hat)	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	59.2
V	Total SWP Deliveries	59.2
J	Northfork Canal	0.0
L	Redlands Aqueduct	14.8
M	Crafton Unger Lane	6.6
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2309.0
Crafton Reservoir Level (21.3)	13.8
Mentone Reservoir Level	21.6

River Recharge	AF
Estimate SAR Recharge (AF)	59
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	59

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	14,907	176,000
Santa Ana River to Mill Creek	SAR-MC	201	0
Santa Ana River	SWP	7,983	0
Mill Creek	MC	5,280	106,000
Mill Creek	SWP	3,429	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	134	0

Notes: Numbers on the Daily Flow Report are a snapshot of water at a given location at the time of the read, normally very early in the morning, and not necessarily what is at that location throughout the day.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	19.8	H	EVWDC City Creek	6.0	M	Crafton Unger Lane	6.6	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0	N	BVMWC Boullioun Box	5.0	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	26.8
D	Purchased Water	39.4	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	14.8	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	59.2
F	Recharge Project	0.0									
G	Total SWP Inflows	59.2									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.1	A2	Newport	0.0	D1	BVMWC River PU (USGS)	8.8	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	118.2	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	2.8	E2	Boullioun Box to Zanja	0.0	minus			C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	0.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	8.8
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	127.0	E1	Main River Gage (USGS)	118.2
W1	Redlands Aqueduct / Sandbox	0.9							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.3							A5	Total SAR Inflows	127.0
minus			Other			w	Observation at SOD	2309.0	Edison Generation		
D1	BVMWC River PU (USGS)	8.8	J1	Big Bear Lake Release	0.3	x	SOD Reservoir Elevation (scada)	2308.6	SAR PH#1 Generating	☐	
I1	Redlands Tunnel	1.2	L1	SCE SAR AVM (SCADA)	0.0	y	Debris Pool Elevation	N/A	SAR PH#3 Generating	☐	
A1	SAR PH #3 Penstock (calc)	0.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0						
K1	PH3# Penstock (SCADA)	N/A									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.1	J2	Tailrace Valve to Parshall Flume	2.8	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	0.9
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	2.8	H1	SBVWCD Diversion	80.2	Y1	Redlands Sandbox Spill	0.3
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	minus			Z2	Cuttle Weir To River	38.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	8.8	minus			B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0				minus			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	Irrigation			L2	SBVWCD Parshall Flume	83.0	I2	Tailrace Pipeline	8.8
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	0.0	Parshall Flume (SCADA)			L2	SBVWCD Parshall Flume	83.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	5.0				minus		
			minus			B2	Gay Overflow	1.7	J2	Tailrace Valve to Parshall Flume	2.8
			B2	Gay Overflow	1.7	C2	Irrigation	3.3	K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	1.2
									N2	Total SAR Deliveries	127.0

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	0.0
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	44.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	44.0			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
J3	Wilson Creek Spreading	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	44.0	H3	Mentone Reservoir Level	21.6
K3	Yucaipa Pipeline	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	0.0	R3	Boullioun to BVMWC Highline	0.0
			S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	44.0	V3	Zanja West Weir to CWC Canal	3.9
			T3	MC #1 Flow (Cooley Hat)	0.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	0.0				Y3	Crafton Reservoir Level (21.3)	13.8
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	44.0									
L3	East Weir (MC)	0.0									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	0.0									
O3	SBVWCD MC Spreading	44.0									

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	161.3	I4	14,906.7	176,000	I4	14,835.9	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	200.5		O4	109.0	
B4	Santa Ana River	SWP	F4	0.0	J4	7,982.9		J4	6,967.6	
C4	Mill Creek	MC	G4	87.3	K4	5,280.1	106,000	K4	4,667.6	106,000
D4	Mill Creek	SWP	H4	52.0	L4	3,429.3		L4	3,429.3	
	Redlands	SWP		0.0		0.0			0.0	
	Loma Linda	SWP		0.0		0.0			0.0	
	East Valley	SWP		0.0		134.4			0.0	
SAR Passing Cuttle Weir (cfs)	38		Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0		Estimate SAR Recharge (AF)	59	
Mill Creek Passing Garnet (cfs)	0		Share of Lost Mill Creek Flow	0	Estimate Mill Creek flow (cfs)	0		Estimate Mill Creek Recharge (AF)	0	
Flow in the River Above Alabama	38		Flowing Beyond Alabama	10	Total River Flow (cfs)	0		Total River Recharge (AF)	59	